

**ABSTRACT OF THE DISCLOSURE**

The invention relates to a method and apparatus for improving software availability of a cluster computer system via a software rejuvenation technique, in  
5 which a program is temporarily stopped at an adequate time point that a manager of a cluster computer system constituted by several servers can expect, and then restarted. In the invention, both aspects of software and hardware are considered, a proactive fault-tolerance technique is utilized via software rejuvenation and availability is improved through determination of the optimal rejuvenation period according to a  
10 software unstable rate and a hardware failure rate of the cluster system so that features of a high-available computer system can be ensured efficient in cost.

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